Decimal	Input Binary Code				Output Gray Code			
	X_3	X_2	X_1	X_0	y_3	y_2	y_1	y_0
0	0	0	0	0	0	0	0	0
1	0	0	0	1	0	0	0	1
2	0	0	1	0	0	0	1	1
3	0	0	1	1	0	0	1	0
4	0	1	0	0	0	1	1	0
5	0	1	0	1	0	1	1	1
6	0	1	1	0	0	1	0	1
7	0	1	1	1	0	1	0	0
8	1	0	0	0	1	1	0	0
9	1	0	0	1	1	1	0	1
10	1	0	1	0	1	1	1	1
11	1	0	1	1	1	1	1	0
12	1	1	0	0	1	0	1	0
13	1	1	0	1	1	0	1	1
14	1	1	1	0	1	0	0	1
15	1	1	1	1	1	0	0	0

TABLE 1

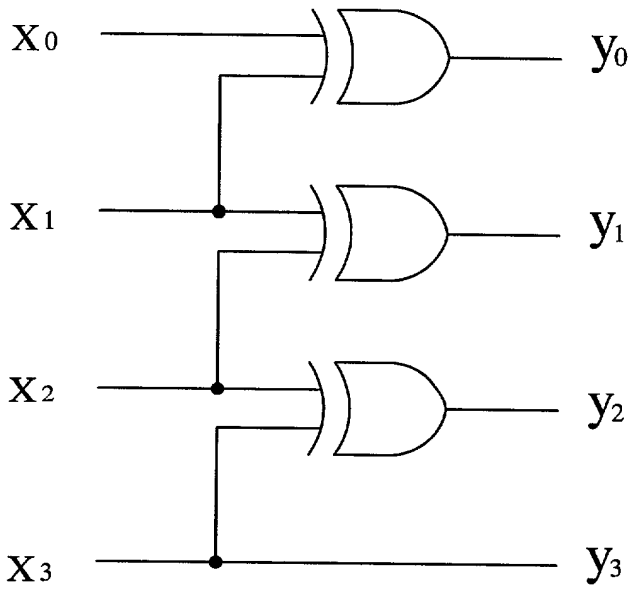

FIG.1

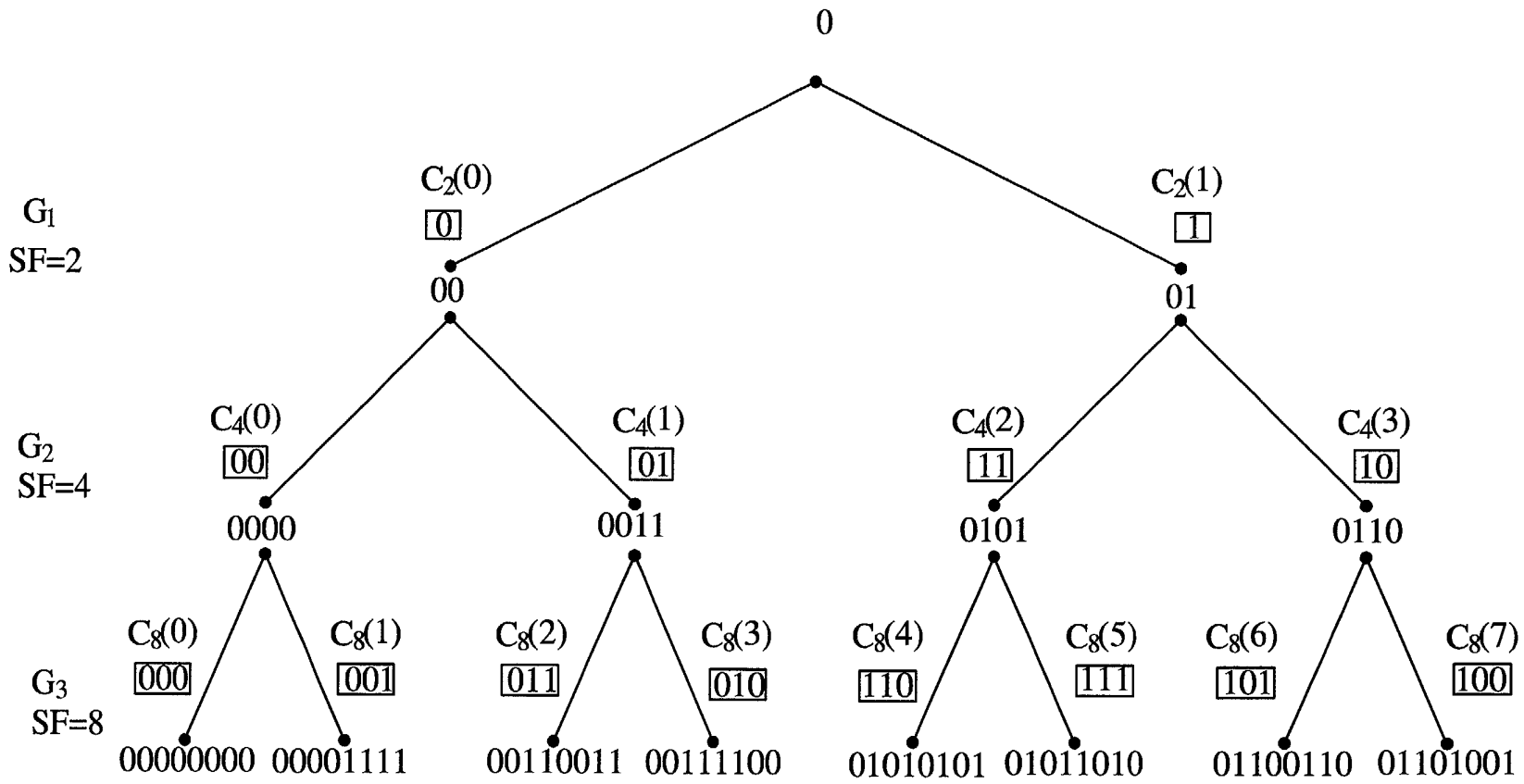
0
C2(0)
0
C2(1)
1
G1
SF=2
00
01
C4(0)
00
C4(1)
01
C4(2)
11
C4(3)
10
G2
SF=4
0000
0011
0101
0110
C8(0)
000
C8(1)
001
C8(2)
011
C8(3)
010
C8(4)
110
C8(5)
111
C8(6)
101
C8(7)
100
G3
SF=8
00000000
00001111
00110011
00111100
01010101
01011010
01100110
01101001

FIG.2

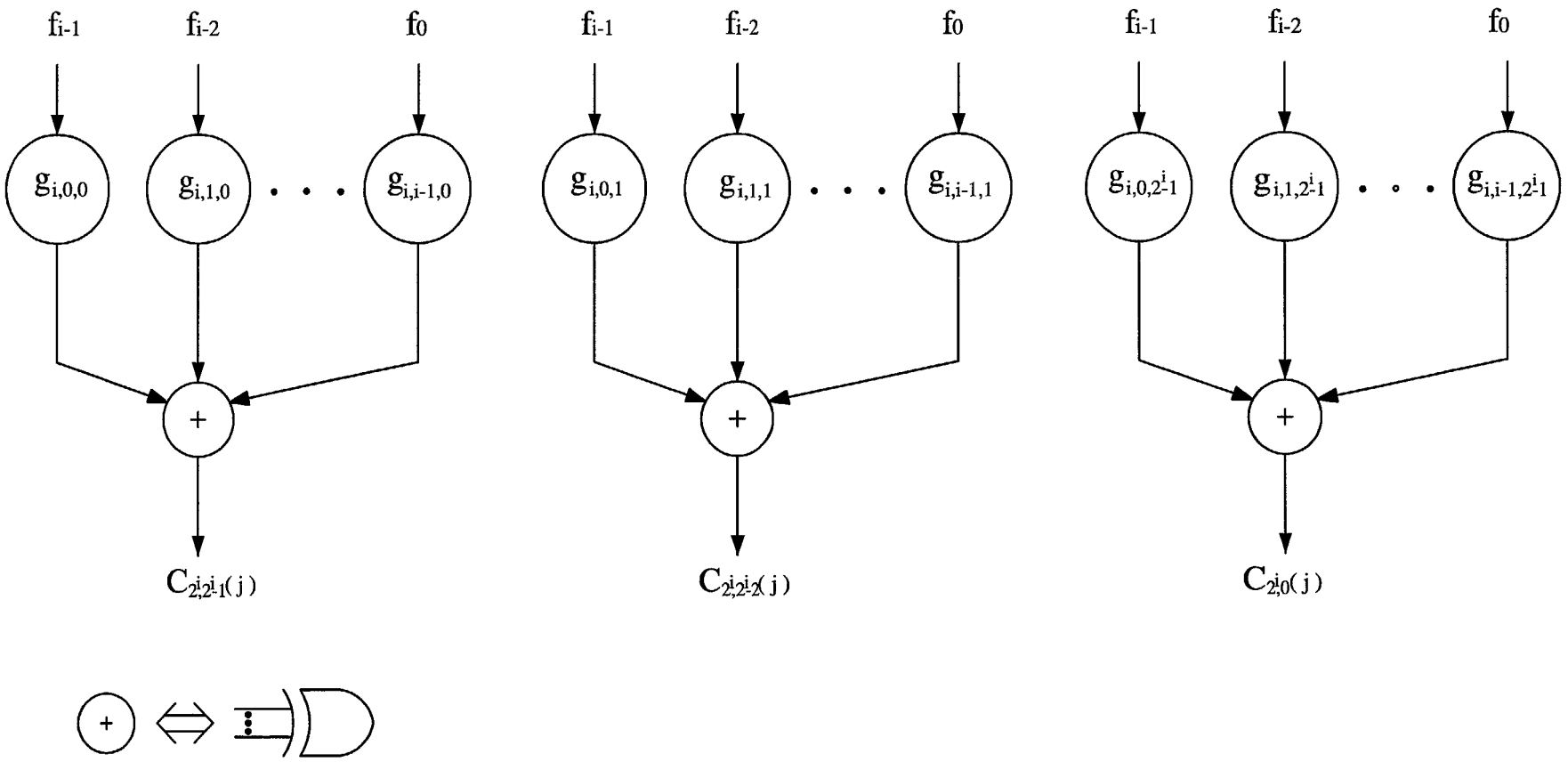
fi-1
fi-2
f0
gi,0,0
gi,1,0
gi,i-1,0
Ci,2i-1(j)
gi,0,1
gi,1,1
gi,i-1,1
Ci,2i-2(j)
gi,0,2i-1
gi,1,2i-1
gi,i-1,2i-1
Ci,0(j)
+

FIG.3

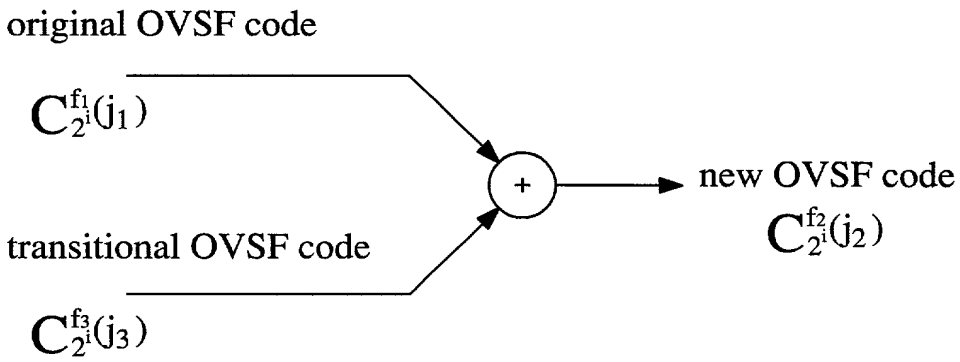
original OVSF code
$C_{2^i}^{f_1}(j_1)$
transitional OVSF code
$C_{2^i}^{f_3}(j_3)$
+
new OVSF code
$C_{2^i}^{f_2}(j_2)$

FIG.4